

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/523,062
Source: PG/10
Date Processed by STIC: 2/22/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/523,062

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/523,062

DATE: 02/22/2005

TIME: 08:21:00

Input Set : A:\1386-Seq-WO.txt

Output Set: N:\CRF4\02222005\J523062.raw

3 <110> APPLICANT: Epigenomics AG
 5 <120> TITLE OF INVENTION: Method for amplification of nucleic acids of low complexity
 7 <130> FILE REFERENCE: E01/1386/WO
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/523,062
 C--> 9 <141> CURRENT FILING DATE: 2005-02-02
 9 <160> NUMBER OF SEQ ID NOS: 160
 11 <210> SEQ ID NO: 1
 12 <211> LENGTH: 322
 13 <212> TYPE: DNA
 14 <213> ORGANISM: Artificial Sequence
 16 <220> FEATURE:
 17 <223> OTHER INFORMATION: 2025
 19 <400> SEQUENCE: 1
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 22 ccattaatta ctatacacta acgaaacttt cccgacccac aacgacgaaa ataaaaacaa 120
 23 tcgctaacgc taaaaaacat caaaaacact acccaaccga aatatcgccg ccgcttccac 180
 24 aaaactctac taaacgcccgc cgccgcccgt accacgcct ctaatccaaa ccacctcccg 240
 25 ccaaataaac cccgaaatcc taactcaaat atatatctct cctccctct cctccattc 300
 26 gtcattttct cactcccttt cc 322
 28 <210> SEQ ID NO: 2
 29 <211> LENGTH: 413
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial Sequence
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: 2044
 36 <400> SEQUENCE: 2
 38 ggataggagt tgggattaag attttcgggt agtttcgtat ttttcgtat ttttagtat 60
 39 cgtttcgtat ttttcgtatt ttttttcggg ttattacgtt ttttatgtga ttcgtttggg 120
 40 taacgtcgaa tttagtcgag tagcgttgta gtgaattttt tttttaaatt gtaataagtc 180
 41 gttttttaag gtaattacgt tttttttggt ttttttttaa aaaataaaaa taaaaaattt 240
 42 atagaaaaaa attcgcgagt ttagaaaaaa gaagtaattg gtagaagggt ttaattaagg 300
 43 taaagagttg taaggcgaag ttaagaaaaat gtaggtattt aaaaaatgta ggtaattttt 360
 44 ataagggttt ttggggagag gtatatagag ggattttggt gttgaaaaag att 413
 46 <210> SEQ ID NO: 3
 47 <211> LENGTH: 347
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Artificial Sequence
 51 <220> FEATURE:
 52 <223> OTHER INFORMATION: 2045
 54 <400> SEQUENCE: 3
 56 aaccctttct tcaattaca aaccttctta ccttcaaacc tcgactccaa caccaatccg 60
 57 acaaaaaaac ccaatctaataaaaatagcgt cccttctctac cattctctat tccattaacc 120
 58 tatttcgtaa taaacgtaaa actaatctc caaattacc ttattaatta acttacatat 180

pg 1-6

Does Not Comply
Corrected Diskette Needed

insufficient explanation
of Artificial Sequence

Please give source
of genetic
material
(see item 11
on Euro
summary
sheet)

same error

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/523,062

DATE: 02/22/2005

TIME: 08:21:00

Input Set : A:\1386-Seq-WO.txt

Output Set: N:\CRF4\02222005\J523062.raw

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59 ttattatcta tctatccac caaaatacaa atttccgaaa aacaaaaatt taaaaaatc 240
60 tttttattc tatataattt tcccatacca aacaccgtac ccgacacaaa ctaaaatccc 300
61 aatacacatc tcgaaacgaa aaaaccgtat ttccctaaaa cccaatc 347
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 283
65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: 2106
71 <400> SEQUENCE: 4
73 ttgaaaataa gaaaggttga ggtagagagg ataatatagt tttagtttat tttttagtat 60
74 tttgttaatt ttttttaatt tttagttata aattcgagat ataacgtttt ttttttaaag 120
75 aggtcgcgtt ttttttgttg tgggttttag ggattcgttt tagttttttt ttcgttttta 180
76 gttttatata ttgggattat taggtattta agattttatt ttttaggttg tatttttagc 240
77 gtaggttggt atttagtttt ttttaggga tttggggtag aag 283
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 211
81 <212> TYPE: DNA
82 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <223> OTHER INFORMATION: 2166
87 <400> SEQUENCE: 5
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90 ggaggcgttg atttttcgtt cgatgatagg gttggaggag gaaggggcgg gttgaagaag 120
91 gggaaggttg gaagagtta gtcggggtta taaattgggt gaagcgttga ggttttagta 180
92 ttttcgtttg aggagatagg taaaggttat g 211
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 497
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: 2188
102 <400> SEQUENCE: 6
104 ttttagattg aggttttagg gttaaaggat tttttttttt tttagcgttg gttcgggaaa 60
105 ggtaagtttc gggcgggagc gtacgtcgcg ttttcgaagt ttggtttttt cgttacgttt 120
106 attttttggt tttatttcgc gtttttttag gttttttttc ggtgaatcgg atgttttggt 180
107 agttttttat tttgcgtttt cggtcgcggt tcgggttttt cgtaaagtcg ttgttatttc 240
108 ggagggttta gttagcgggt tttcggaggt tggtcgggta ggcgtggtgc gcggtaggag 300
109 ttgggcgcgt acggttatcg cgcgtggagg agatattggt ttgtcgcgat ggggggttcgg 360
110 ggcgtttttt tacgtcgtag gtaagcgggg cggcgggttc ggtatttggt tatcgggagt 420
111 tttttttttt ttttttggtt gttgttggtt tgtatttagt tcgggggagg atagaagaaa 480
112 aaggaggtag aatggat 497
114 <210> SEQ ID NO: 7
115 <211> LENGTH: 373
116 <212> TYPE: DNA
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: 2191
122 <400> SEQUENCE: 7

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/523,062

DATE: 02/22/2005

TIME: 08:21:00

Input Set : A:\1386-Seq-WO.txt

Output Set: N:\CRF4\02222005\J523062.raw

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124 ggaggggaga gggttatgcg attttatttt tggttagggt cggggagggt tttgtttttc      60
125 gggagttttg ttcgggtttt ttggtcgtag ggttggtggg ttttaggtag gaacgagagg      120
126 gtgaggttta tatgtggttc ggcgggtttag ggcgggttgt agcgttttta ttgtttcggg      180
127 tgttaggggt tgcggcgacg cggttagtta gtagcgagtt taggtcgcgt agattttatt      240
128 gatgagtttt gatttttagt atttttttta agttaagaag agtttagcgt atttttcggg      300
129 tgtttttatt tagttttttt gttttagttt ttttagttta ttttttttcg ttttgttttg      360
130 ggggtgtgat agt                                          373
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 368
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: 2194
140 <400> SEQUENCE: 8
142 ttttggaat gggttgtatc gagaggttcg attagtttta gggttttagt gagggggtag      60
143 tggaatttag cgagggattg agagttttat agtatgtacg agtttgatgt tagagaaaaa      120
144 gtccggagat aaaggagtcg cgtgttatta aattgtcgtc gtagtcgtag ttatttaagt      180
145 gtccgatttg tgagtatttt gcgttttttag ttttcggata gaagttggag aatttttttg      240
146 gagaattttt cgagtttaga gacgagattt ttaataattt attatttttt tttgcgtttt      300
147 ttatttgcg ttcgttgga taaacgatag ttatagtttt tttgacgata ggatggagggt      360
148 taagggtg                                          368
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 352
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: 2212
158 <400> SEQUENCE: 9
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161 gttatttgaa ggtagtagt tcgggtaggg tttatcgaaa gtttattcgt atatattagg      120
162 taattttaatt ttttattttg tgtgatagaa gtagtaggaa gtgagttgtt tagaggtagg      180
163 agggtttatt ttttgttaaa ggggggatta gaattttttt atgcgagttg tttgaggatt      240
164 gggatgtcga gaacgcgagc gattcgagta gggtttggtt gggatcgtc ggggtaggat      300
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167 <210> SEQ ID NO: 10
168 <211> LENGTH: 295
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: 2267
175 <400> SEQUENCE: 10
177 gtaatttgaa gaaagttgag gggaggcggg agatgttttg atttattagg gaaaacgtgg      60
178 acgttttttg ttgttatttt gtgaattgtg tgtatttagt tatttttgag taaatatttg      120
179 gagcgaggaa tttttgagtg gtgtgggagg gcggtgaggg gtagttgaaa gtcggttaaa      180
180 gttttcggag gggttggttt aggaaatatg attggtagtt acgagagagt taggggttgg      240
181 acgtcgagga gagggagaag gttttcgggc ggagagaggt tttgtttagt tgttg          295
183 <210> SEQ ID NO: 11
184 <211> LENGTH: 278
185 <212> TYPE: DNA

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RAW SEQUENCE LISTING

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DATE: 02/22/2005

TIME: 08:21:00

Input Set : A:\1386-Seq-WO.txt

Output Set: N:\CRF4\02222005\J523062.raw

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186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: (2317)
191 <400> SEQUENCE: 11
193 ggagttgtat tgttgggaga tttgggtgta gatgatgggg atgttaggat tattcgaatt      60
194 taaagttgaa cgttttaggta gaggagtgga gttttgggga attttgagtc ggttttaaagc      120
195 gtattttttt gtatatttat tcggtgttgg gcgtagggaa tttttgaaat aaaagatgta      180
196 taaagtattg aggtttgaga tttttggatt tcgaaatatt gagaatttat agttgtatat      240
197 tttagagttt atggtatttt agtgaaaatt ggggtttt      278
199 <210> SEQ ID NO: 12
200 <211> LENGTH: 285
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: (2383)
207 <400> SEQUENCE: 12
209 tttgtattag gttggaagtg gtcgttagtt tttcgtgtaa ttttattttt tggaaaagtg      60
210 gaattagttg gtattgttta gcgtgatttg tgaggttgag ttttaatagt ttaaagaagt      120
211 aaatgggatg ttattttcgc ggggttcggt tttcgcgagg tgtttatttc gtatttgta      180
212 tgtaaaacga gggagcgtaa ggaaggaatt cgttttgtaa agttattggt tttggttatt      240
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215 <210> SEQ ID NO: 13
216 <211> LENGTH: 380
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: (2387)
223 <400> SEQUENCE: 13
225 gatttttgga gaggaagtta agtgtttttt tgtttttttt cggtatttta ttttaaggcga      60
226 ttagtttaga attggttttc ggaagcggtc gggtaaagat tgcaagaag aaaagatatt      120
227 tggcggaat ttgtgcgttt gggcggttg aattcgggga ggagaggag ggattagata      180
228 ggagagtggg gattattttt tttgttttta aattggggta gtttttggg ttttcgattt      240
229 ttttattttc gtgggtaaaa aattttgttt ttatcgggtt tacgtaattt ttttaagggg      300
230 agaggaggga aaaatttggt gggggtacga aaaggcgga agaaatagtt atttcgttat      360
231 atgggtttgg tttttagttt      380
233 <210> SEQ ID NO: 14
234 <211> LENGTH: 397
235 <212> TYPE: DNA
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: (2391)
241 <400> SEQUENCE: 14
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245 ttgcgtttcg tcggtttatt ttttttttta taaaacgggt ttagttttta gtatttattt      180
246 ttcgttatta attaggtatt tcgggagatt agttcggtcg aaagtttttg cgttatttcg      240
247 cgggtttttt taggtggttt ttttagtttc gttttttttc gggatgtttg ttgattattt      300
248 cgagttcgcg tggcgtaaga gtacgagcgt cgagttcggt cgcgttaagg ttgcgtgggc      360
249 gggatatcat ttttttga agtttttagt tttttaa      397

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/523,062

DATE: 02/22/2005

TIME: 08:21:00

Input Set : A:\1386-Seq-WO.txt

Output Set: N:\CRF4\02222005\J523062.raw

251 <210> SEQ ID NO: 15
 252 <211> LENGTH: 547
 253 <212> TYPE: DNA
 254 <213> ORGANISM: Artificial Sequence
 256 <220> FEATURE:
 257 <223> OTHER INFORMATION: 2395
 259 <400> SEQUENCE: 15

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262	ttttcgattt	tttagtttag	acgttggttg	gtttttttcg	ttggagatcg	cgtttttttt	120
263	aaatttttgt	gagcgttgcg	gaagtacgcg	gggttcgggt	cggtgagcgt	tgtaagatag	180
264	gggagggagt	cgggcgggag	agggaggggc	ggcgtcgggg	cgggttttga	tatagagtag	240
265	gcgtcgcggg	tcgtagtata	gtcggagatc	gtagttcgga	gttcgggtta	gggtttattt	300
266	gttttcgtag	cgtcggttcg	cgtttttttg	tcgtagttag	cggtgagtgt	cgcggttttg	360
267	agattttcgg	gtcggatgcg	cggcggtttt	agttttcgag	cgtttggttg	tttcggtttg	420
268	ggttgttcgg	gttttttggg	tttttcggcg	gttgtacgga	gttaaggcgt	ttcgtttcgg	480
269	gcgtttttcg	cgggtgtcga	tttaggttgt	tcggagttcg	gagtttatag	aggagagaga	540
270	tagttgg						547

272 <210> SEQ ID NO: 16
 273 <211> LENGTH: 414
 274 <212> TYPE: DNA
 275 <213> ORGANISM: Artificial Sequence
 277 <220> FEATURE:
 278 <223> OTHER INFORMATION: 2401
 280 <400> SEQUENCE: 16

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284	ggagcgaata	gtagtttttt	cgttcggtga	ttagaaatag	taggacgata	ttttttcgat	180
285	tggaggagag	cgtttgcgtt	cgtatttagt	tggcggttcg	ttttttgttt	tttttttagt	240
286	cgtttttttt	tttttttttc	gcgttttagt	tattcgggaa	ggtattgcgg	tagttggggt	300
287	ttgattgggt	gttttgaaag	tttacgggtt	attcgattgg	tgaattcggg	gttttttagc	360
288	gcggtgagtt	tgaaattggt	cgtatttggt	tttaaagttg	gtttttggaa	attg	414

290 <210> SEQ ID NO: 17
 291 <211> LENGTH: 272
 292 <212> TYPE: DNA
 293 <213> ORGANISM: Artificial Sequence
 295 <220> FEATURE:
 296 <223> OTHER INFORMATION: 2453
 298 <400> SEQUENCE: 17

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301	gtataagttt	tttagtaggg	tgatgatata	aaaagttatc	ggagtatttt	ataaggtata	120
302	aattttttaga	gatagtagag	tatataagtt	tttaggataa	gagttaggaa	gaaattatcg	180
303	gaaggaatta	ttttattgtg	tgtaaataatg	atttttaagt	tggtcgtggt	ttttttggtg	240
304	gtttttttga	ttttttagt	tttgtgtgaa	gg			272

306 <210> SEQ ID NO: 18
 307 <211> LENGTH: 391
 308 <212> TYPE: DNA
 309 <213> ORGANISM: Artificial Sequence
 311 <220> FEATURE:
 312 <223> OTHER INFORMATION: 2484

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

IMPORTANT

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/523,062

DATE: 02/22/2005
TIME: 08:21:01

Input Set : A:\1386-Seq-WO.txt
Output Set: N:\CRF4\02222005\J523062.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:53; N Pos. 1371

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/523,062

DATE: 02/22/2005

TIME: 08:21:01

Input Set : A:\1386-Seq-WO.txt

Output Set: N:\CRF4\02222005\J523062.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:1294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:1320